Library Management System

Software Engineering Laboratory Project

CSI 322 Sec : B Group : T10

T10 Members

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Motivation

- In this COVID-19 situation, online library management system can also help reduce COVID cases by minimizing face to face interaction.
- Libraries are essential in a process of giving students and all other citizens access to knowledge.
- In our country, library systems are written. But in the developed country they reduced the usage of paper so dramatically. For making paper we need to cut trees to collect fiber and raw woods. It is very harmful to our environment. To save our environment, we take this step to reduce this.

Existing Scenario

- For example, we can compare with United International University library management system(http://library.uiu.ac.bd/). It has a website that has history and minimum search capability with some additional features. But it can't provide the actual quantity of its book stock.
- The online service has no donation feature.
- If a student wants a book to read in the future, he may just bookmark the book but this online service can't provide this must-have feature.

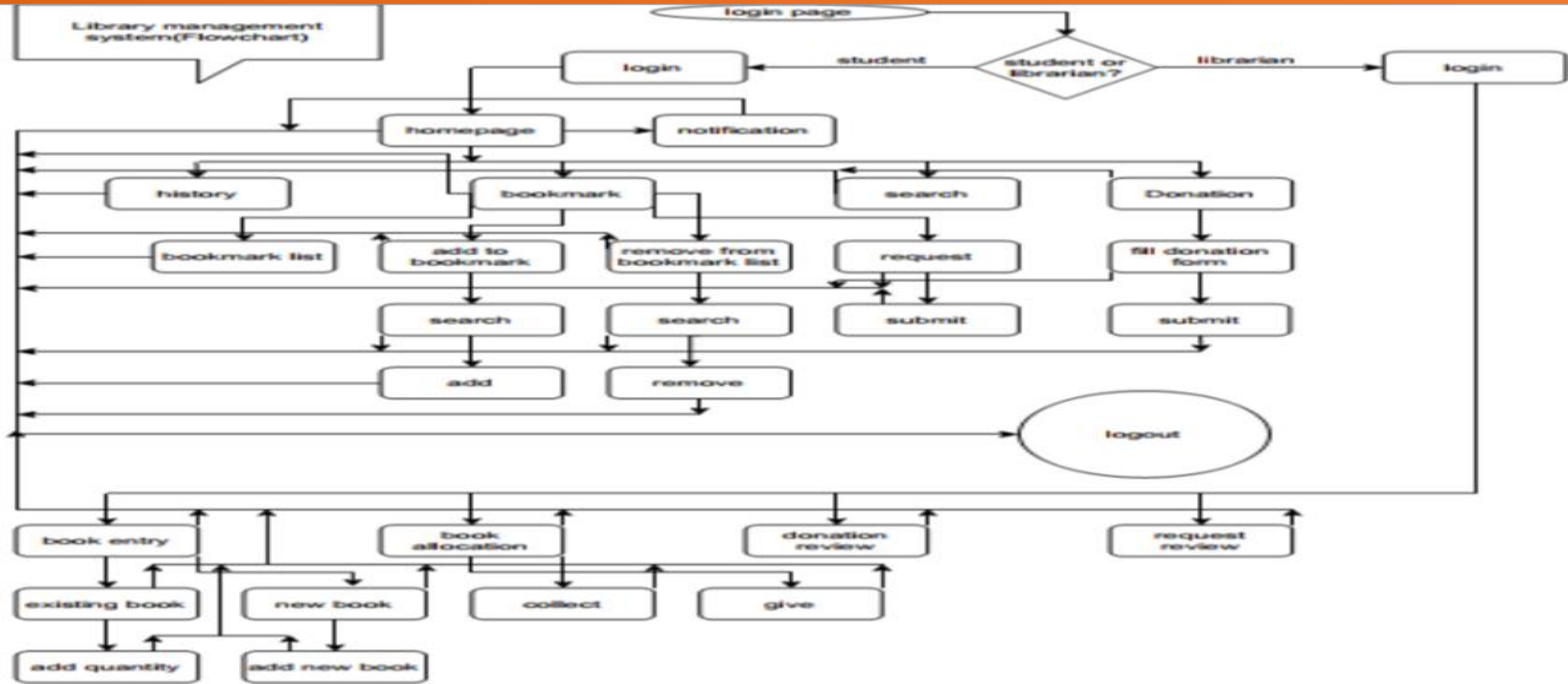
Developed Features

1. Sign Up/Login *(Both)*.
2. Book Entry *(Librarian/Admin)*.
3. Edit Book Name *(Librarian/Admin)*.
4. Edit Writer Name of a existing book *(Librarian/Admin)*.
5. Books List *(Student)*.
6. Add to Bookmark List *(Student)*.
7. Delete from Bookmark List *(Student)*.

Planned Features

1. Books Allocation by Librarian.
2. Donation Review by Librarian.
3. Request Review by Librarian.
4. Notification.
5. Books Allocation History.
6. Request List.
7. Donate Books.
8. Donate History.

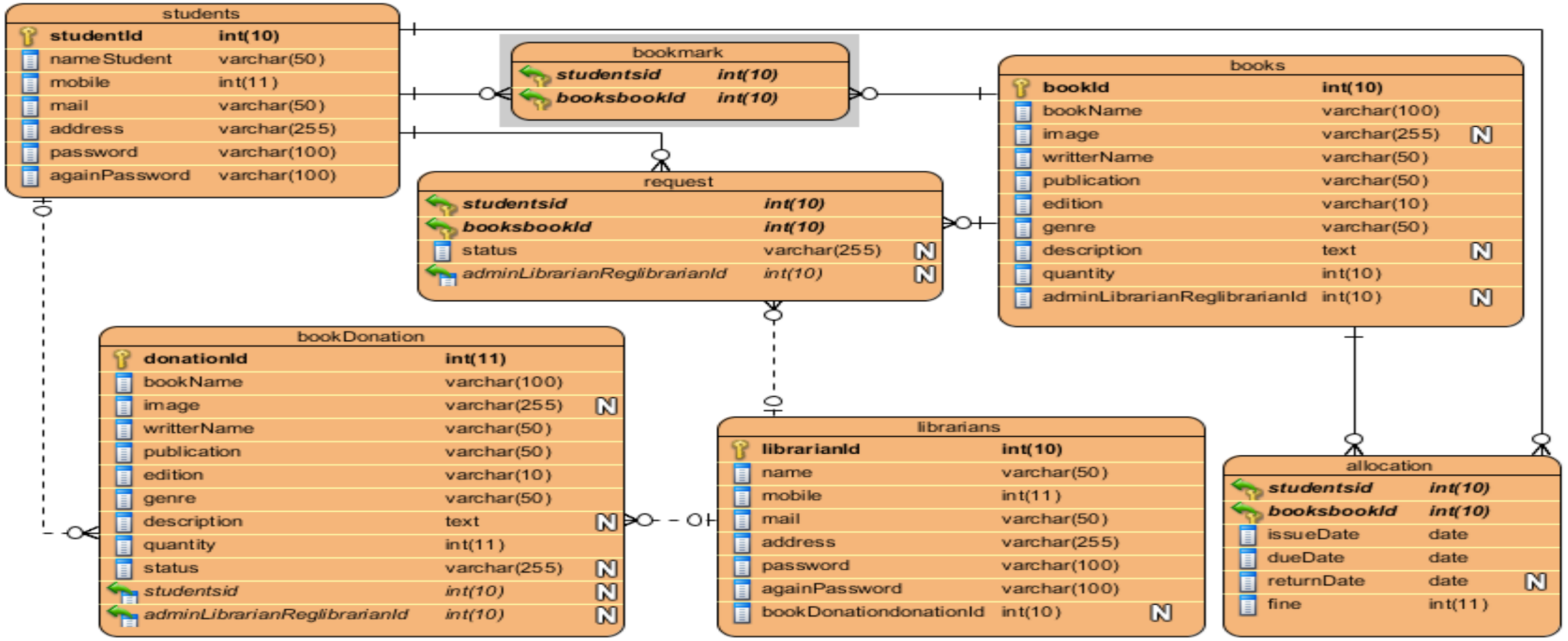
Flow Chart


Library management system(Flowchart)
login page
student or librarian?
student
librarian
login
login
homepage
notification
history
bookmark
search
Donation
bookmark list
add to bookmark
remove from bookmark list
request
fill donation form
search
search
submit
submit
add
remove
logout
book entry
book allocation
donation review
request review
existing book
new book
collect
give
add quantity
add new book

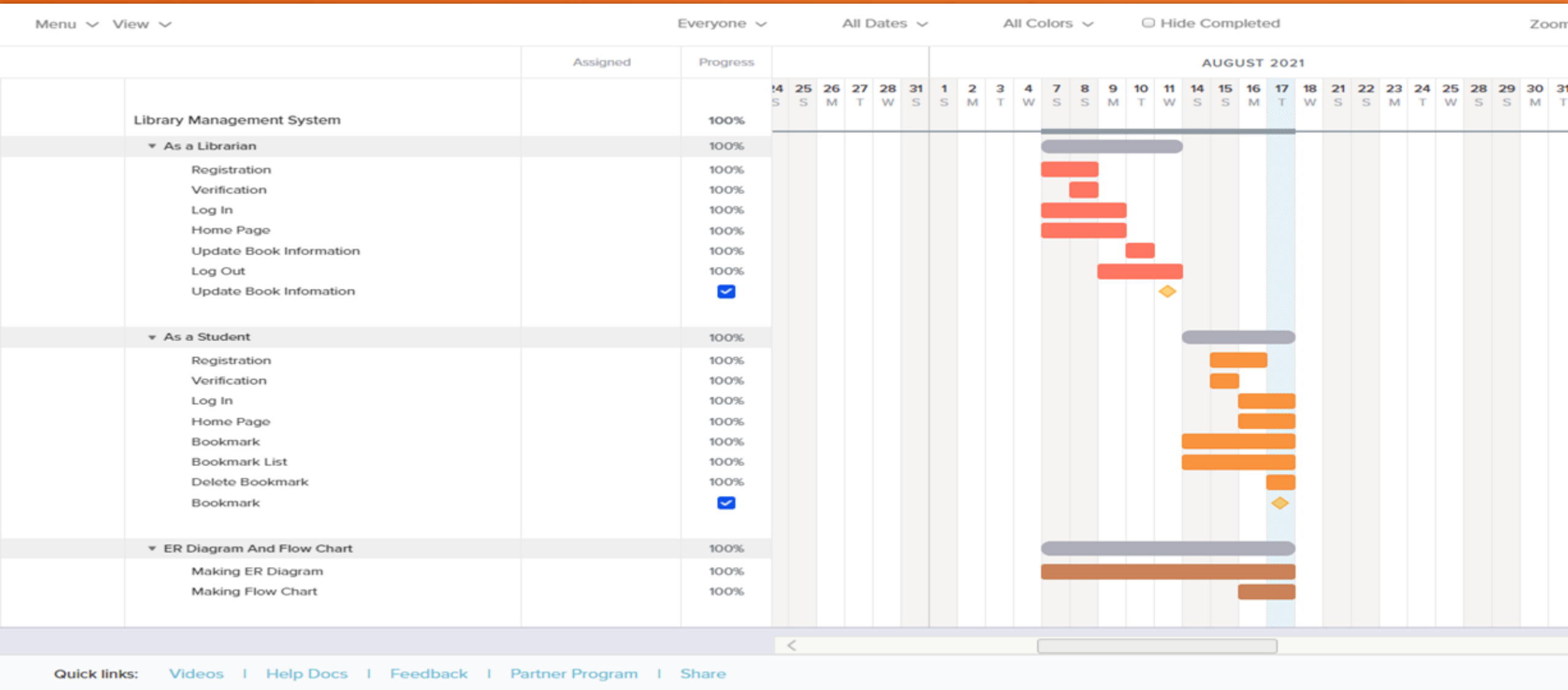
Technology

- HTML
- CSS
- PHP
- JAVA SCRIPT
- MySQL
- Bootstrap

Full Project ER Diagram



Project Schedule (Gantt Chart)



Future Improvement

- In the future, we have plans to add AI to this project. By using AI we can integrate a service called web-self suggestion. Like based on the students' previous study history a bunch of books can be suggested and that decision is based on AI.
- Some additional features will be also added based on the user requirement.

THE END